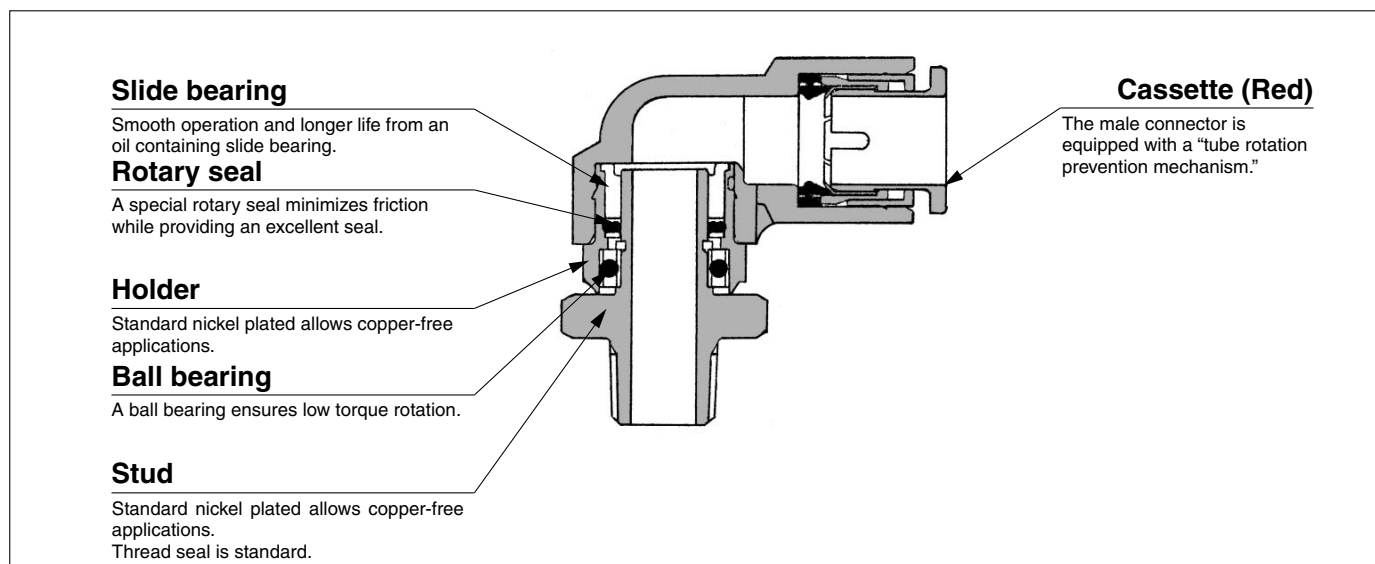


# Inch-size Rotary One-touch Fittings Standard Type

## Series *KS*

Applicable Tubing: Inch Size



### Low-torque rotation style rotary One-touch fittings

Applicable to use for oscillating and rotating sections in robots.

Applicable to non-copper type (With electroless nickel plated)

Thread seal is standard.



### Applicable Tubing

Tubing material <sup>Note)</sup>	Nylon, Soft nylon, Polyurethane
Tubing O.D.	ø 5/32", ø 1/4", ø 5/16", ø 3/8"

Note) Monitor max. operating pressure for soft nylon and polyurethane tubing.

### Specification

Fluid	Air
Maximum operating pressure	1.0 MPa
Operating vacuum pressure	-100 kPa
Proof pressure	3.0 MPa
Ambient and fluid temperature	-5 to 60°C (No freezing)
Thread	ANSI/ASME B1.20.1-1983 (NTP thread) JIS B 0212 2A, Class 2B (UNF thread)

### Rotating Torque/Allowable Number of Rotations

Applicable tubing O.D.	ø 5/32"	ø 1/4"	ø 5/16"	ø 3/8"
Rotating torque (N·m) <sup>Note)</sup>	0.006	0.012	0.014	0.020
Allowable number of rotations (S <sup>-1</sup> )	8.3	8.3	6.7	5

Note) Rotating torque under pressure 0.5 MPa

### Principal Parts Material

Body	PBT
Stud, Holder, Guide	Stainless steel 304, C3604BD (With electroless nickel plated)
Chuck, Retainer	Stainless steel 304
Collet, Release button, Snap ring	Polyacetal
O-ring, Packing	NBR
Rotary seal	NBR
Slide bearing	Oil-containing polyacetal
Scraper	—
Ball bearing	Bearing steel
Gasket	Stainless steel 304, NBR

# Series KS

## Male Connector: KSH (Standard)

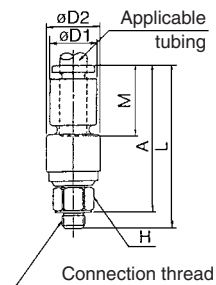
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Applicable tubing O.D. (inch)	Connection thread UNF NPT	Model	H (Width across flats)	D1	D2	L	A *	M	Min. port size	Effective area (mm <sup>2</sup> )		Weight (g)
										Nylon	Urethane	
5/32	10-32 UNF	KSH03-32	8	10.4	12	36.5	33	16	2.5	4.0	4.0	9
	1/8	KSH03-34S	12.7			38.5	34.5					14
1/4	1/8	KSH07-34S	14.29	13.2	14	39.5	35.5	17	4	13.4	10.4	17
	1/4	KSH07-35S				42.5	36.5					23
5/16	1/8	KSH09-34S	17.46	15.2	17	44	40	18.5	6	26.1	18.0	23
	1/4	KSH09-35S				47	41					29
3/8	1/4	KSH11-35S	22.23	17.9	22	54	48	21	7	36.3	29.5	55
	3/8	KSH11-36S				55	48.5					63

\* Reference dimensions after NPT thread installation.

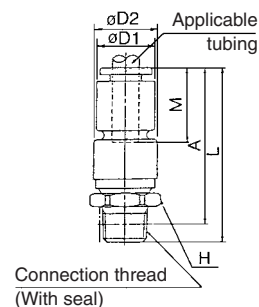
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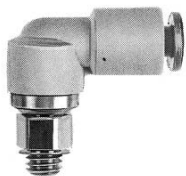


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## Male Elbow: KSL (Standard)

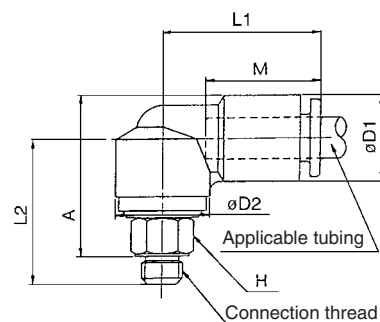
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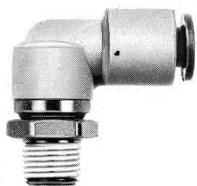
Applicable tubing O.D. (inch)	Connection thread UNF NPT	Model	H (Width across flats)	D1	D2	L1	L2	A *	M	Min. port size	Effective area (mm <sup>2</sup> )		Weight (g)
											Nylon	Urethane	
5/32	10-32 UNF	KSL03-32	8	10.4	12	21	20.5	22	16	2.5	3.5	3.5	9
	1/8	KSL03-34S	12.7				22	23.5					14
1/4	1/8	KSL07-34S	14.29	13.2	14	23.5	23	25.5	17	4	8.6	8.6	17
	1/4	KSL07-35S					26	26.5					23
5/16	1/8	KSL09-34S	17.46	15.2	17	26	26.5	30	18.5	6	21.6	14.9	23
	1/4	KSL09-35S					29.5	31					29
3/8	1/4	KSL11-35S	22.23	17.9	22	31.5	34	37	21	7	30.5	25.0	56
	3/8	KSL11-36S					35	38					64

\* Reference dimensions after NPT thread installation.

<UNF>



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